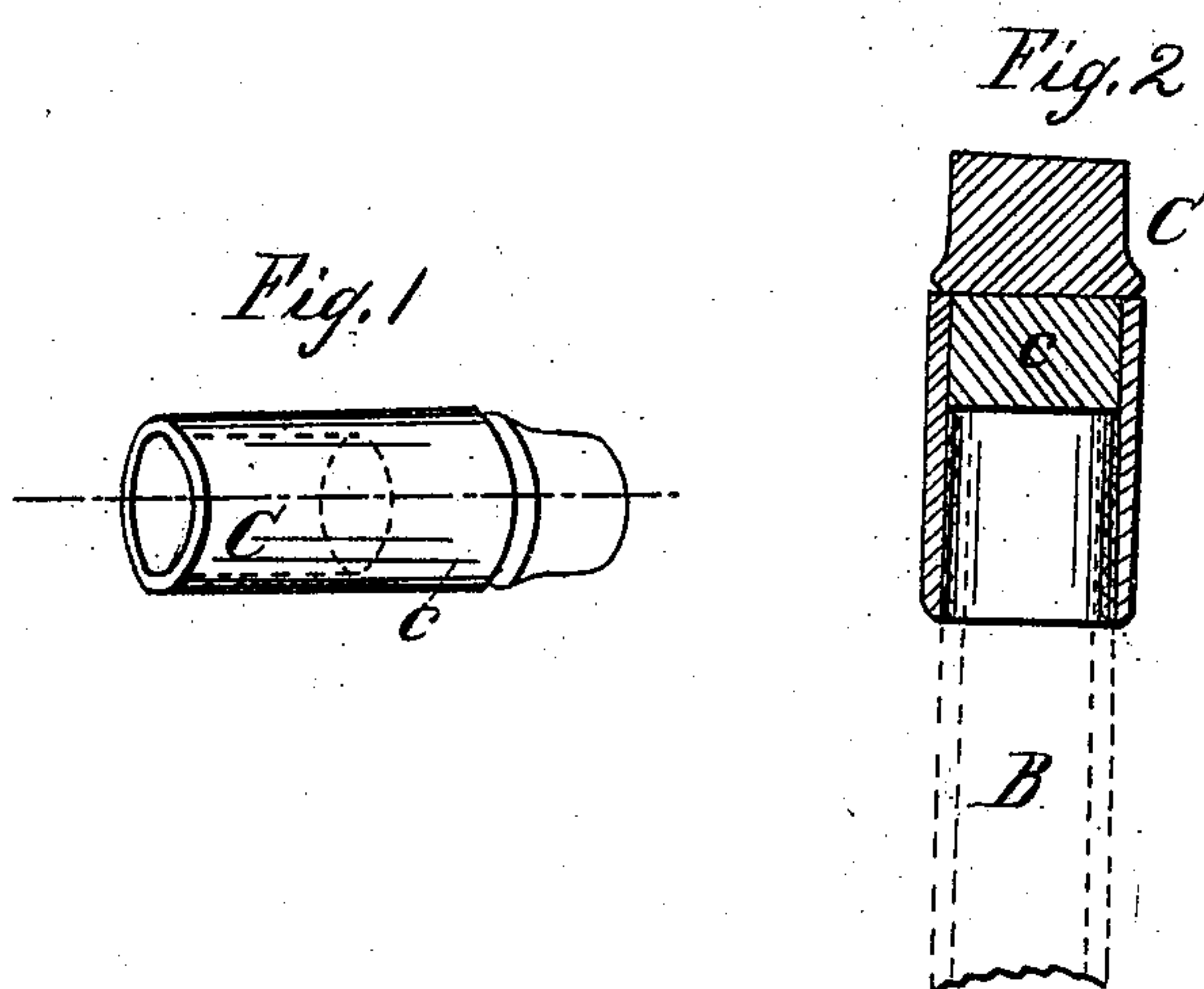


E. M. Roberts.

Well Tubing.

N^o 62,891.

Patented Mar. 12, 1867.



Witnesses

J. M. Burdett
J. D. Patten

Inventor

E. M. Roberts.

By his attorney G. B. Clarke

United States Patent Office.

EZRA M. ROBORDS, OF AVOCA, NEW YORK.

Letters Patent No. 62,891, dated March 12, 1867.

IMPROVED METHOD OF DRIVING WELL-TUBES.

The Schedule referred to in these Letters Patent and making part of the same.

TO ALL WHOM IT MAY CONCERN:

Be it known that I, EZRA M. ROBORDS, of Avoca, in the county of Steuben, and State of New York, have invented a new and useful Improvement in Tubular Wells; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the accompanying drawings, making a part of this specification, in which—

Figure 1, view of metallic case or cap.

Figure 2, vertical sectional view of same, as indicated by the line *xy* in fig. 3.

Like letters in the two figures of the drawings indicate like parts.

The nature of my invention consists in the construction of a metallic case or cap provided with a block or plug of zinc, or its equivalent, within the upper part of it, whereby, on a section of the tubing being united by the cap; and when driven down, the said block of zinc or other soft metal will protect the screw-threads that may be on the cap and on the tubing for connecting the two together. It is obvious that if the cap is made just so to fit on the tubing, when screwed thereon, as to allow the end thereof to come sufficiently in contact with the upper part of the cap to receive the force of the hammering to drive the tube down, the effect of it will be to not only injure the threads, but likewise the cap; hence the interposition of a substance of the nature of zinc to prevent this.

The metallic case or cap is represented by the letter C, (see figs. 1 and 2.) In fig. 2 will be seen the block of zinc *c*. It is introduced within the cap and lodged against the upper part of it in the manner deemed most proper. In practice the lower inner sides of the cap and the outer sides of the end of the tubing are provided with screw-threads. The connection of the tubing with the cap is represented in red lines in fig. 2.

Having thus fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

The metallic case or cap C, provided with a block or plug of zinc *c*, or its equivalent, substantially in the manner and for the purpose as herein set forth.

EZRA M. ROBORDS.

Witnesses:

N. B. CHASE,
A. M. SPOONER.